movement means to move said dressing material and the fine grinding surface relative to one another and,

means to flex the outside extent of the grinding surface to form a concave surface during operation of said movement means to provide a flat to convex shape to the fine grinding surface.

Cancel Claims 3-12.

Claim 13 (first amendment). [The system of claim 1 characterized in that] In a system utilizing a fine grinding wheel, the wheel having a fine grinding surface with a radial extent to an outside diameter,

the improvement of a dressing wheel system, the dressing wheel system including dressing material, said dressing material having a radial extent less than the radial extent of the fine grinding surface, means to bring said dressing material and the radial extent of the fine grinding surface into physical contact,

and movement means to move said dressing material and the fine grinding surface relative to one another to dress the fine grinding surface [is dressed] to a convex shape.

Claim 14. The system of claim 13 characterized in that said convex shape includes a taper.

Claim 15. The system of claim 14 characterized in that said convex shape includes at least one step.

Claim 16. The system of claim 13 characterized in that said convex shape is a curved shape.

Cancel Claims 17-23.

Claim 24 (first amendment). [The system of claim 17 characterized in that] In a system utilizing a fine grinding wheel, the wheel having a fine grinding surface with a radial extent to an outside diameter, the system having a production carrier assembly including planet gears and a pinion drive,

A3 the improvement of a dressing wheel system, the dressing wheel system including dressing material, said dressing material having a radial extent less than the radial extent of the fine grinding surface, means to bring said dressing material and the radial extent of the fine grinding surface into physical contact,

movement means to move said dressing material and the fine grinding surface relative to one another to provide a convex shape to the fine grinding surface,

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said movement means utilizing at least part of the production carrier assembly and the pinion drive, and said convex shape [includes] including a taper.

Claim 25. The system of claim 24 characterized in that said convex shape includes at least one step.

Claim 26 (first amendment). [The system of claim 17 characterized in that] In a system utilizing a fine grinding wheel, the wheel having a fine grinding surface with a radial extent to an outside diameter, the system having a production carrier assembly including planet gears and a pinion drive,

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the improvement of a dressing wheel system, the dressing wheel system including dressing material, said dressing material having a radial extent less than the radial extent of the fine grinding surface, means to bring said dressing material and the radial extent of the fine grinding surface into physical contact,

movement means to move said dressing material and the fine grinding surface relative to one another to provide a convex shape to the fine grinding surface,

AM said movement means utilizing at least part of the production carrier assembly and the pinion drive, and said convex shape is a curved shape.

Cancel Claim 27.

Claim 28. In a system utilizing a grinding wheel, the improvement of a dresser and movement means to move said dresser in respect to the grinding wheel.

SUB C2 Claim 29. A method for dressing a fine grinding wheel, the wheel having a fine grinding surface with a radial extent to an outside diameter, method comprising bringing dressing material and the outside diameter of the fine grinding surface into physical contact with said dressing material having a radial extent less than the radial extent of the fine grinding surface,

and moving said dressing material and the fine grinding surface relative to one another to provide a flat to convex shape to the fine grinding surface.

Add new claims 30-41.

Claim 30. In a system utilizing a fine grinding wheel, the wheel having a fine grinding surface with an outer extent neighboring an outside circumference, the improvement of the outer 20-40% of the outer extent of the fine grinding wheel having a convex shape.

Claim 31. The system of claim 30 characterized in that the fine grinding wheel is used in a system having a production assembly and the outer 20-40% of the outer extent of the grinding wheel is dressed to said convex shape utilizing at least part of the production assembly.

Claim 32. The system of claim 31 characterized in that the fine grinding wheel is dressed by differential movement means and said differential movement means including at least part of the production assembly

Claim 33. The system of claim 32 characterized in that said differential movement means includes planet gears.

Claim 34. The system of claim 33 wherein the system includes a production assembly having a pinion drive gear and characterized by said differential movement means of said dressing wheel system utilizes the pinion drive gear.

Claim 35. The system of claim 34 wherein the pinion drive has a gear with a diameter and characterized in that said differential movement means includes an intermediate pinion extender gear, and said extender gear increasing the apparent diameter of the pinion drive gear.

Claim 36. The system of claim 31 wherein the system includes a production assembly having a pinion drive gear having a diameter and a stationary outer ring, and characterized by said differential movement means of said dressing wheel system utilizing the pinion drive gear,

said differential movement means also including an intermediate pinion extender gear, said extender gear increasing the apparent diameter of the pinion drive gear,

said differential movement means utilizing the stationary outer ring, planet dresser wheels, means to connect said dressing material to said planet dresser wheels, and said planet dresser wheels being drivingly located between said extender gear and the stationary outer gear.

Claim 37. The system of claim 31 wherein the fine grinding surface is formed of cutting materials embedded in a carrier and characterized by the dressing wheel system